

Title (en)

METHOD FOR OPERATING A FLUID SUPPLY SYSTEM

Title (de)

VERFAHREN ZUM BETRIEB EINES FLUIDVERSORGUNGSSYSTEMS

Title (fr)

PROCÉDÉ DE FONCTIONNEMENT D'UN SYSTÈME D'ALIMENTATION EN FLUIDE

Publication

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Application

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Priority

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Abstract (en)

The invention relates to a method for operating a fluid supply system, said fluid supply system comprising a fluid tank, pumping means and a fluid dosing valve, comprising: operating said fluid supply system according to current values of operating parameters (P), in order to pump a fluid from said fluid tank to said fluid dosing valve and to dose said fluid, via said fluid dosing valve, into an exhaust gas system (170) of an engine, determining said current values of said operating parameters (P) based on a desired value (M) of a mass or mass flow of said fluid to be dosed into said exhaust gas system, correcting the desired value (M) of said mass or mass flow or a dosed value of said mass or mass flow by determining and applying a correction factor ($F_{corr,des}$), wherein determining said correction factor comprises the steps: determining (214) a density (ρ_m) of said fluid, determining (206) a differential pressure (Δp_m) between an internal pressure (ρ_{int}) of said fluid supply system when said fluid dosing valve is open and an external pressure (ρ_{ext}) of said exhaust gas system, and determining (230) said correction factor ($F_{corr,des}$) based on said density (ρ_m) and on said differential pressure (Δp_m).

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Citation (search report)

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